

# FOS II Reactivity Problems B

Name \_\_\_\_\_ Blk \_\_\_\_\_

## General Formula for Single Replacement Rxn:

Metal A + Metal B, Non-Metal -----> Metal B + Metal A, Non-Metal

## Reactivity Series Order

Most Reactive

Least Reactive

Li K Ca Na Mg Al Zn Fe Sn Pb H Cu Hg Ag Au

**Answer the following questions. You may use your Periodic Table, Reactivity Series, and Polyatomic Ion Sheet for help.**

### Part I: Name the following compounds:

1.  $\text{Ca}(\text{OH})_2$
2.  $\text{SrSe}$
3.  $\text{Li}(\text{OH})$
4.  $\text{Na}(\text{ClO}_4)$
5.  $\text{Ca}_3\text{P}_2$
6.  $\text{Ca}_3(\text{PO}_4)$
7.  $\text{LiCl}$

### Part II: Write and Balance the formulas for the following compounds

1. Aluminum sulfite
2. Magnesium carbonate
3. Cesium oxide
4. Ammonium permanganate
5. Copper (I) sulfate
6. Iron (II) sulfide
7. Aluminum sulfate

**Part III** Complete and balance these equations for these single-replacement reactions that take place in water solution. Balance each equation. If a reaction does not occur (use the activity series), write "No reaction"

